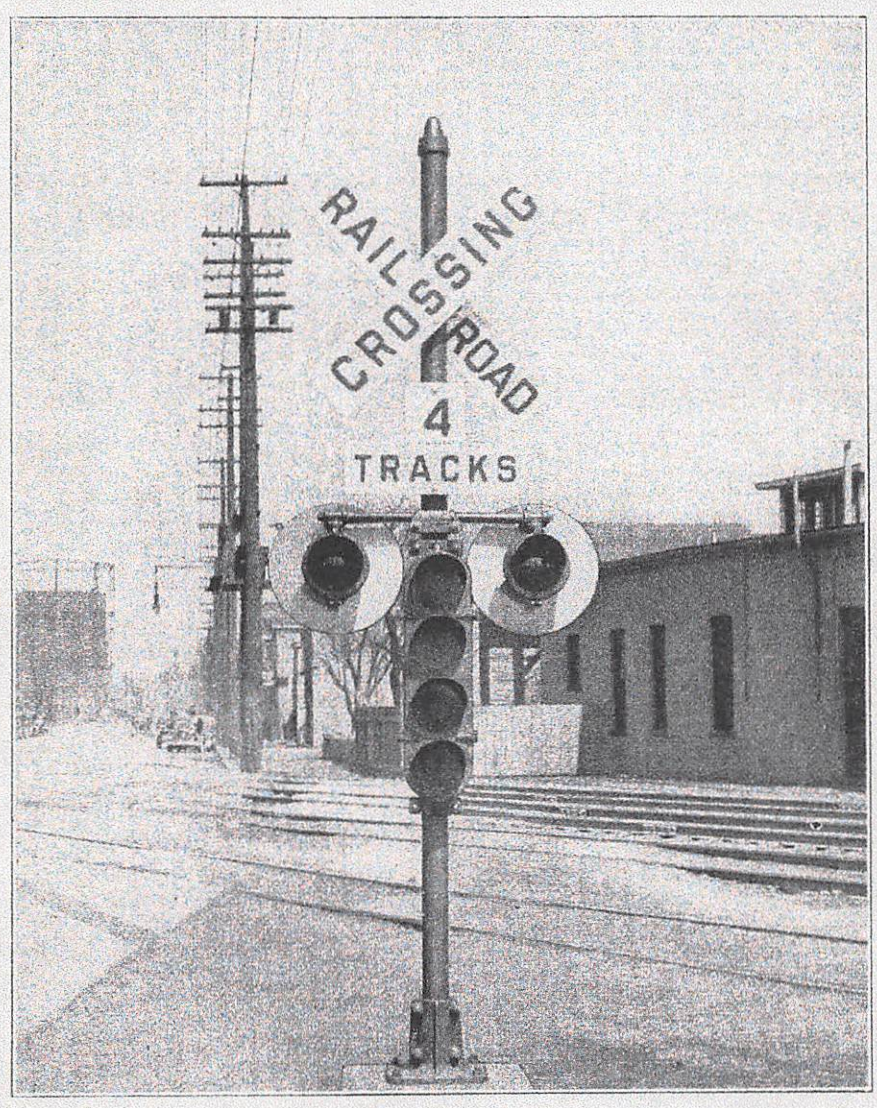
HIGHWAY CROSSING SIGNALS



PEERLESS MANUFACTURING CORPORATION

INCORPORATED

SUCCESSOR TO

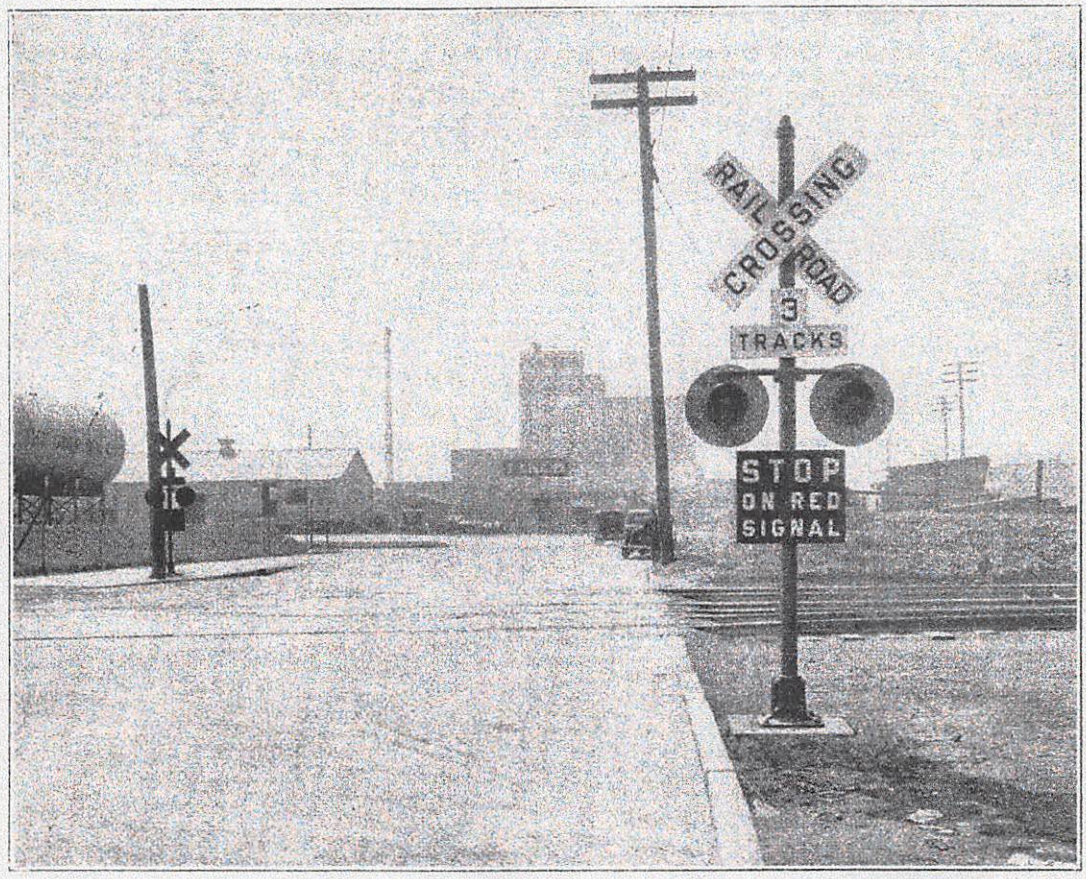
LOUISVILLE SWITCH & SIGNAL CO.

April 15, 1935

LOUISVILLE,
KENTUCKY

Bulletin No. 10A

THIS BULLETIN SUPERSEDES BULLETINS Nos. 10 AND 17, AND BLUE PRINTS BP10-1, BP10-2, AND BP10-3.


RAIL
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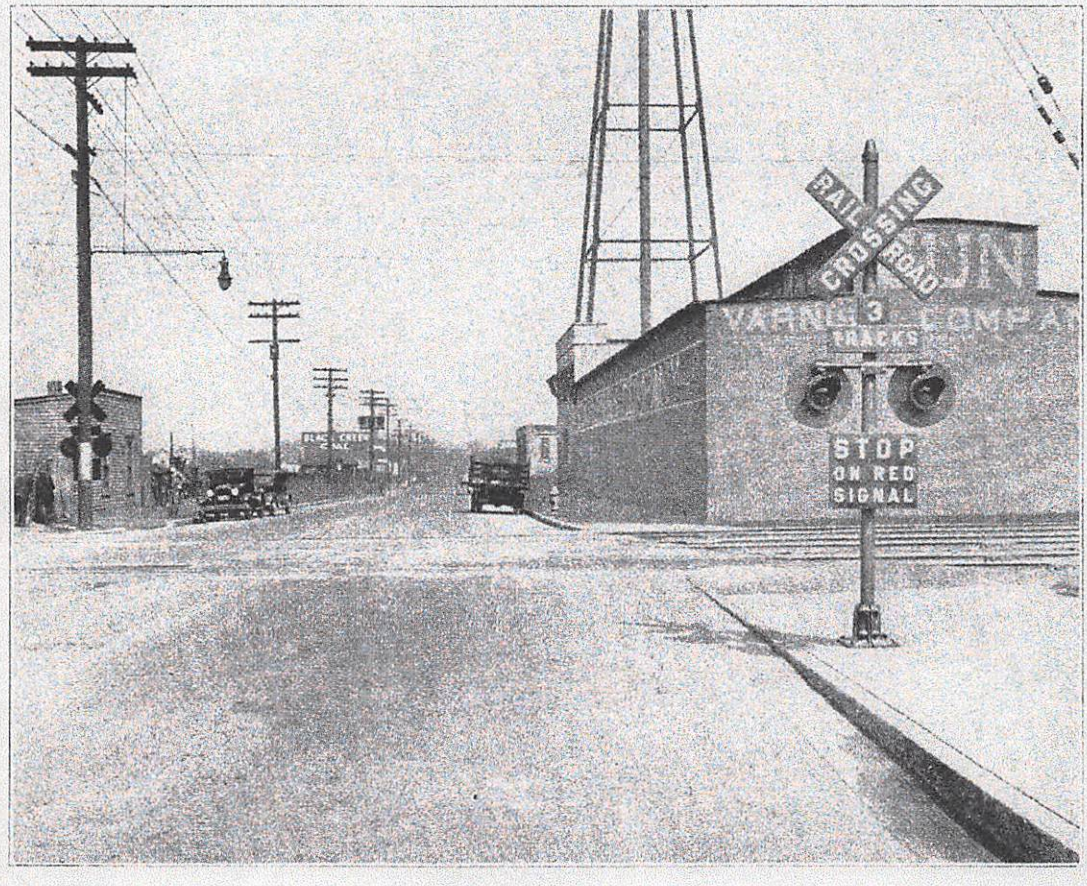
STOP
ON RED
SIGNAL


RAIL
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3
TRACKS
STOP
ON RED
SIGNAL

Flashing Light Highway Crossing Signals

Our Model D Flashing Light Signals are of the very latest design and meet all requirements of the Signal Section of the Association of American Railroads.

An outstanding feature of the Model D Flashing Light Signal with the single contact bayonet socket is the spreading parabolic reflector which is used in the lamp unit. This is a very recent development, and is found in no other signal. A ruby spreading roundel is used with this reflector, projecting a beam, in a horizontal plane, having a spread of 130°, with a very intense center. This combination is a most efficient projector, sending out a maximum of light for a given power consumption.

Most of the lamps used in flashing light signals have black spots, which are objectionable. Our spreading parabolic reflector is almost entirely free of these spots and the slight trace which remains is divided into narrow strips which are hardly perceptible.

The lamps have an 8⅜ inch roundel and are spaced 2 feet six inches apart. Each lamp is provided with two clear side lights, so as to enable trainmen to ascertain whether the signal is in operation. If the side lights are not wanted they can be covered with a coat of paint when the signals are installed. The lamp housings are cast iron and the lamps supported from an arm of 1¼ inch steel pipe. To facilitate wiring, tees with ends plugged, are used to connect the lamps to the arm. Horizontal adjustments are made by turning the lamp in the tee, and vertical adjustments by turning the tee on the arm. Large set screws are provided at each point of adjustment, to firmly lock these adjustments after they have been made. The fitting used to connect the lamp to the tee is flanged and bolted to the lamp, with a gasket between it and the lamp. This construction eliminates all pipe lock nuts, nipples and bushings and insures a leak-proof connection which will not come loose and throw the lamp out of alignment. All lamps are equipped with 20 inch, 18 gauge steel backgrounds.

The lamp arm is secured to the mast by a clamp which is very simple, dependable and convenient to install and wire. These clamps will fit all pipe masts measuring from 3 to 5 inches (inside diameter), inclusive. A small U bolt is used for 3, 3½ and 4 inch pipe and a larger one for 4½ and 5 inch pipe. These clamps are so designed that one man can place a set of lamps on a mast without assistance. One half of the clamp, called the saddle, is placed over the 1½ inch wire hole in the mast, and secured to the mast with the U bolt and two nuts. The arm is then put into position, resting on the ends of the U bolt, after which the other half of the clamp, called the cap, is slipped over the ends of the U bolt and two more nuts placed thereon, clamping the arm. The U bolts are made of ⅝ inch diameter stock. When lamps are mounted back to back two straight studs, with threads and nuts on both ends, are used instead of the U bolt for mounting the arms on the mast but no change is made in the clamps.

We are prepared to furnish our Model D signals equipped with the new A. A. R. No. 1656A Junction Box and Cross Arm.

We list a number of combinations of highway crossing signals but there are many more which are not listed. To list them all would be impracticable. Therefore even if the combination is not listed in this bulletin, do not hesitate to send us your specifications because we are in a position to supply it and solicit your patronage.

We do not supply incandescent lamps with our signals unless they are specified and if wanted the voltage and wattage should be given in the specification.

We guarantee our products to be free from defects in workmanship, to be of the best materials and to give satisfactory service, unless abused or damaged by accident.

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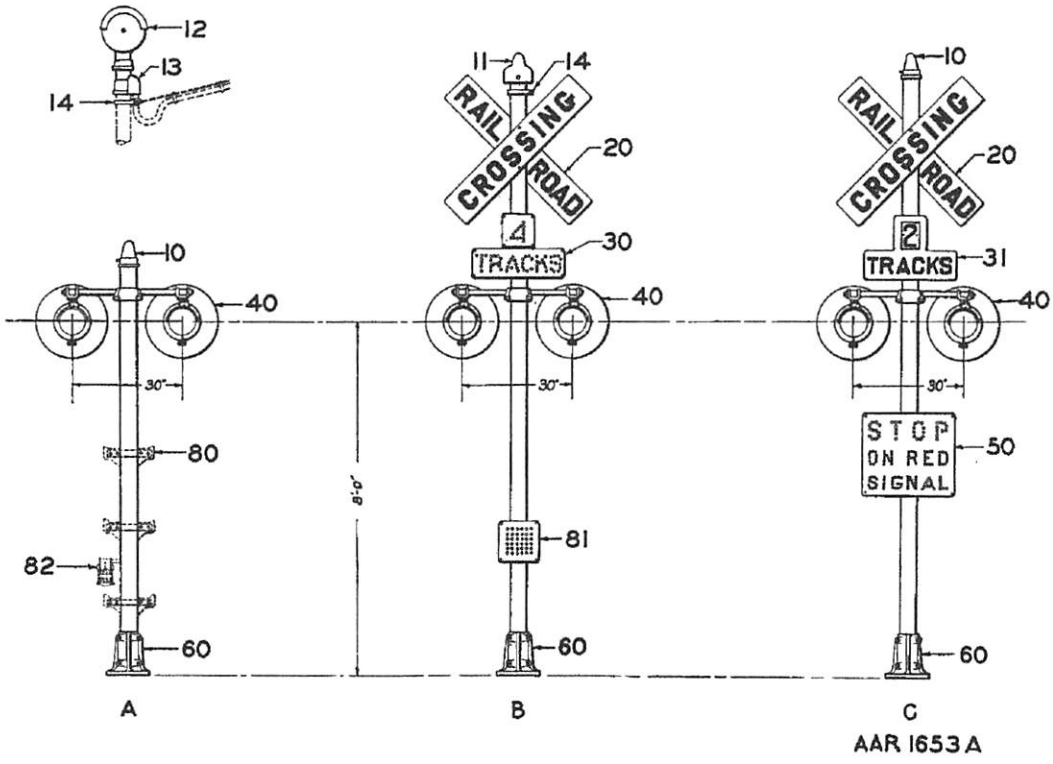
Flashing Light Highway Crossing Signals

Plate D-3



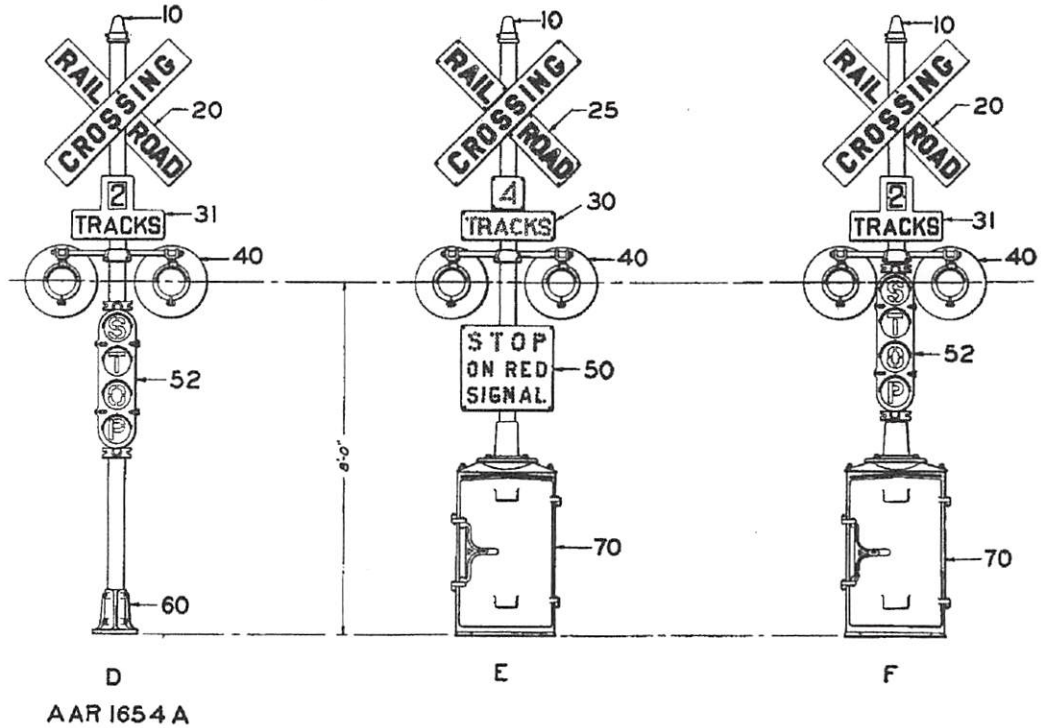


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Plate D-3

Model D Highway Crossing Signals

We can furnish signals any height desired, with lamps any distance from the base, but unless otherwise specified, signals with heights and lamp centers as shown on the opposite plate will be furnished.

All lamps have 20″ background, and 8⅜″ diameter red roundels, and are mounted on 4″ inside diameter pipe masts. Parts shown in dotted outline on the plate are never furnished unless specified on order.

Bases and masts other than those shown will be furnished if specified.

How To Order Signals

If you want a signal exactly as shown on the opposite plate simply order it by the main figure letter and plate number—example:

Highway Crossing Signal Fig. B, Plate D-3.

If you want any other combination, add or omit, or substitute any part you wish and include each part reference and the plate number in your order—example:

Highway Crossing Signal with Bell 12, Crossing Sign 20, Lamps 41, Base 60, Marker 81. and 3½″ pipe mast, Plate D-3.

If a bell is wanted the operating voltage must also be specified and if a tracks sign is wanted state the number of tracks at the crossing.

PARTS

FIG.	NAME AND DESCRIPTION	DWG. No.
10	Cone Pinnacle	40447-1X
11	Cable Post Type of Pinnacle	50310X
12	Top of Mast Bell (Specify operating voltage)	40200
13	Bell Cable Outlet	40443-1X
14	Cable Support Clamp	50110-1X
20	Cast Iron Crossing Sign, 90°, two piece, A. A. R. 16402. 5½″ lettering on both sides, black on white background.	41046-2X
21	Cast Iron Crossign Sign, 90°, two piece, 5″ lettering on both sides of a 9″ x 48″ panel, black lettering on white background.	41044-2X
22	Cast Iron Crossing Sign, 90°, two piece, 5″ lettering on both sides of a 7″ x 48″ panel, black lettering on white background.	41034-2X
23	Cast Iron Crossing Sign, 90°, one piece, 5″ lettering on one side of a 7″ x 48″ panel, black lettering on white background.	40436X
24	Cast Iron Crossing Sign, 45°, two piece, 5″ lettering on both sides of a 7″ x 72″ panel, black lettering on white background.	40435-2X
25	Reflector Crossing Sign, 90°, A. A. R. 16422, Peerless No. W-149, white lettering on black background.	80510X

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Plate D-3

Model D Highway Crossing Signal Parts

FIG.	NAME AND DESCRIPTION	DWG. No.
30	Reflector Tracks Sign (Specify number of tracks) A. A. R. 16455, Peerless No. W-136-2, white lettering on black background.	80490-2X
31	Cast Iron Tracks Sign (Specify number of tracks) A. A. R. 16442, black lettering on white background.	41049-2X
40	One Pair of Model D Lamps with supporting arm, 130° spread, and single contact bayonet sockets.	41200-14
41	One Pair of Model D Lamps with supporting arm, 160° spread, and single contact bayonet sockets.	41200-34
42	One Pair of Model D Lamps with supporting arm, 30° spread, and Edison medium screw sockets.	41200-16
43	One Pair of Model D Lamps with supporting arm, 160° spread, and Edison medium screw sockets.	41200-36
44	Two Pairs of Model D Lamps mounted back to back, with supporting arms, 130° spread, and single contact bayonet sockets.	41200-18
45	Two Pairs of Model D Lamps mounted back to back, with supporting arms, 160° spread, and single contact bayonet sockets.	41200-38
46	Two Pairs of Model D Lamps mounted back to back, with supporting arms, 30° spread, and Edison medium screw sockets.	41200-20
47	Two Pairs of Model D Lamps mounted back to back, with supporting arms, 160° spread, and Edison medium screw sockets.	41200-40
50	Reflector STOP ON RED SIGNAL Sign, A. A. R. 16462, Peerless No. W-140-2, white lettering on black background.	80474X
51	Reflector STOP ON RED Sign, Peerless No. W-153-2, white lettering on black background.	80474-1X
52	Model D Luminous Stop Sign with single contact bayonet sockets.	70300
53	Model D Luminous Stop Sign with Edison medium screw sockets.	70300-2
60	Clamp Base complete, A. A. R. 14492, (9½" x 9½" anchor bolt centers).	41018X
61	Clamp Base complete, (6" x 8" anchor bolt centers).	50302-1AX
62	Clamp Base complete, (12" x 12" anchor bolt centers).	41033X
63	Solid Base, for sulfuring to mast, (9½" x 9½" anchor bolt centers).	50508-1
70	Model D Relay and Battery Case with one door, (23⅞" x 23⅞" anchor bolt centers). For detail see Bulletin 4B.	50500-1
71	Model D Relay and Battery Case with two doors, (23⅞" x 23⅞" anchort bolt centers). For detail see Bulletin 4B.	50500-5
80	Pole Step complete.	41025-2X
81	Reflector Crossing Signal Marker, A. A. R. 16493, Peerless W-139-B, painted yellow.	80548X
82	Model E Pilot Lamp with A. A. R. 15441 adapter and ¾" pipe nipple for mounting. (Specify color of lens).	41265-4X
83	Model D Pilot Lamp with A. A. R. 15441 adapter and ¾" pipe nipple for mounting. (Specify color of cover glass.)	41042X

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Model D Highway Crossing Signal Lamps

These lamps have an 8⅜ inch diameter ruby spreading roundel—a cast iron housing—heavy sheet metal hood—heavy glass reflector with a guaranteed mirrored surface—two 1¼ inch clear side lights—a brass lock screw with a split washer around it to prevent the screw from falling out when the lamp is opened—an insulated socket arranged to be moved in and out from the focal point of the reflector, so that lamp filaments may be brought to the focal point.

The lamp unit is very simple, compact and efficient. All parts are accessible, and arranged so that adjusting, and focusing, can be done with ease. To focus the lamp filament it is only necessary to loosen one small screw and slide the socket back and forth until the focal point is found; the screw is then tightened. To remove the globe, or incandescent lamp when it burns out, open the lamp by backing out the lock screw, let the front drop forward and pull the reflector assembly from the front. After the globe has been changed, simply push the reflector assembly in place and close the lamp. The lock screw is made to fit the regular socket wrench used on relay terminal posts, etc.

The socket is insulated from all metal parts of the lamp. All of the insulation used in the socket is laminated bakelite which will not soften under summer heat and will not absorb moisture. The leads from the socket terminate on a standard A. A. R. Terminal Block.

The gap between the front and back half of the lamp housing is filled with a gasket, sealing the lamp and rendering it waterproof. Pipe nipples, lock nuts, and bushings have also been eliminated, for suspending the lamp from its arm, and a flanged fitting bolted to the housing and packed with a gasket used in their stead, making a waterproof connection which will not become loose and change the alignment of the lamp.

The spreading parabolic reflector used in our lamps is a feature not found in any other signal lamp. This reflector is the result of much experimental work and is more efficient and projects a beam of light almost entirely free from dead or black spots. Its principal advantage is its wide angle spread, which is 130° with the central part of the beam of a high intensity and the sides of a lower candle power.

The lamps have ears for locking with a padlock.

A full description of the supporting arm and clamps will be found on page three of this bulletin.

Model D Luminous Stop Sign

This sign displays the word stop vertically in 5½ inch letters. The word stop is visible only when the sign is illuminated. Behind each letter there is a parabolic glass reflector, a socket, and an electric lamp, exactly the same as used in our Model D Flashing Light Signal Lamp. The four light units are all housed in a long cast iron case which is sealed with a gasket and locked by two screw hasps provided with staples, so that, a pad lock or a seal may be used. The letters are formed by placing a cast aluminum stencil behind a red diffusing roundel. All leads from the sockets are brought to a terminal block in the center of the housing, and the two control wires are brought into the housing through one of the hollow supporting brackets. Each letter has a separate hood.

Model E Lamp

An electric lamp for use on railroad crossing gates, for a pilot lamp on highway crossing signals, and for any other purpose where a light and durable lamp is required. It weighs two and one quarter pounds complete. This lamp projects a beam of light in both directions along the highway and it is amply shielded to prevent an indication to the enginemen. The shields are adjustable.

This lamp is made with or without a built in switch. The switch is of the mercury contact type, is adjustable, operates by movement of the gate, and may be adjusted to turn the light on or off at any position of the gate.

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Model D Highway Crossing Signal Lamps

These lamps have an 8½ inch diameter ruby spreading roundel—a cast iron housing—heavy sheet metal hood—heavy glass reflector with a guaranteed mirrored surface—two 1½ inch clear side lights—a brass lock screw with a split washer around it to prevent the screw from falling out when the lamp is opened—an insulated socket arranged to be moved in and out from the focal point of the reflector, so that lamp filaments may be brought to the focal point.

The lamp unit is very simple, compact and efficient. All parts are accessible, and arranged so that adjusting and focusing can be done with ease. To focus the lamp filament it is only necessary to loosen the small screw and slide the socket back and forth until the focal point is found; the screw is then tightened. To remove the globe, or incandescent lamp when it burns out, open the lamp by backing out the lock screw, let the front drop forward and pull the reflector assembly from the front. After the globe has been changed, simply push the reflector assembly in place and close the lamp. The lock screw is made to fit the regular socket wrench used on relay terminal posts, etc.

The socket is insulated from all metal parts of the lamp. All of the insulation used in the socket is laminated bakelite which will not soften under summer heat and will not absorb moisture. The leads from the socket terminate on a standard A. A. R. Terminal Block.

The gap between the front and back half of the lamp housing is filled with a gasket sealing the lamp and rendering it waterproof. Pipe nipples, lock nuts, and bushings have also been eliminated, for suspending the lamp from the arm, and a flanged fitting bolted to the housing and packed with a gasket used in their stead, making a waterproof connection which will not become loose and change the alignment of the lamp.

The spherical parabolic reflector used in our lamps is a feature not found in any other signal lamp. This reflector is the result of much experimental work and is more efficient and gives a beam of light almost entirely free from dead or black spots. Its principal advantage is its wide angle spread which is 150° with the central part of the beam of a high intensity and the sides of a lower candle power.

The lamps have eyes for locking with a padlock.

A full description of the supporting arm and clamps will be found on page three of this bulletin.

Model D Luminous Stop Sign

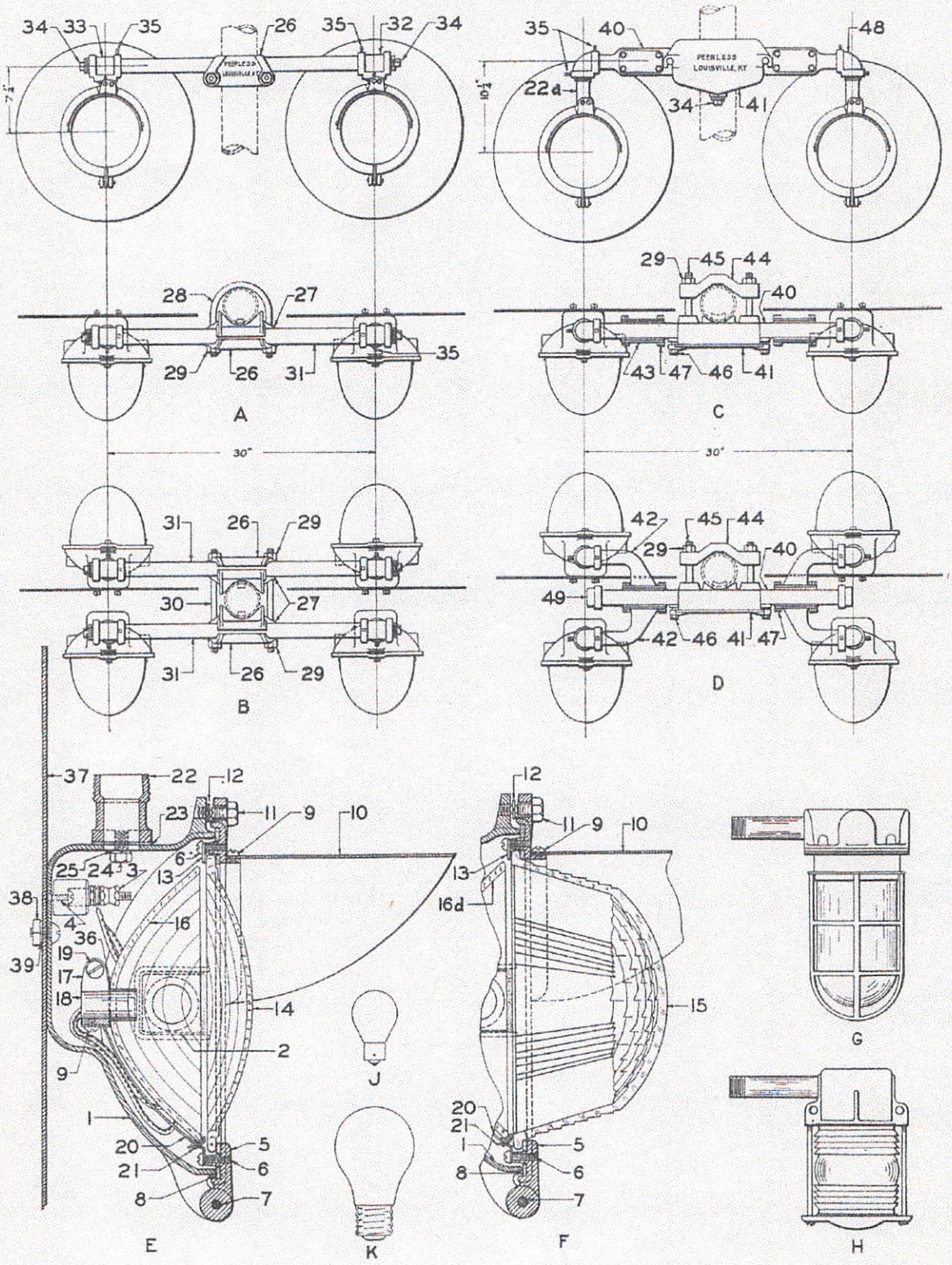
This sign displays the word stop vertically in two inch letters. The word stop is visible only when the sign is illuminated. Behind each letter there is a parabolic glass reflector, a socket, and an electric lamp, exactly the same as used in our Model D Flashing Light Signal Lamp. The four lights in the all bronze one piece cast iron case which is sealed with a gasket and locked by two screw hasps provided with eyelets, so that a pad lock or a seal may be used. The letters are formed by placing a cast aluminum stencil behind a red diffusing roundel. All leads from the sockets are brought to a terminal block in the center of the housing, and the two control wires are brought into the housing through one of the bottom supporting brackets. Each letter has a separate lead.

Model E Lamp

An electric lamp for use on railroad crossing gates, for a pilot lamp on highway crossing signals, and for any other purpose where a light and durable lamp is required. It weighs two and one quarter pounds complete. This lamp projects a beam of light in both directions along the highway and it is amply shielded to prevent an indication to the engineman. The shields are not rotating.

This lamp is made with or without a bell in switch. The switch is of the mercury contact type, is adjustable, operates by movement of the gate, and may be adjusted to turn the light on or off at any position of the gate.

Plate D-21



We are now furnishing our model F. Lamps on all signals. Described in bulletin 10-B

Plate D-21

Model D Highway Crossing Signal Lamps

Order by Plate, Figure, and Name

Example: If one pair of lamps with Peerless arm, 130° spread, bayonet sockets, and with fittings for 5″ pipe mast, is wanted, simply order one pair of Model D lamps Plate D-21, Figure A-1.

For detailed description of lamps see page 7.

ONE PAIR OF MODEL D LAMPS

HORIZONTAL BEAM SPREAD	FOR PIPE MAST	PEERLESS CROSS-ARM		A. A. R. 1656A JUNCTION BOX AND CROSS-ARM	
		Single Contact Bayonet Sockets	Edison Medium Screw Sockets	Single Contact Bayonet Sockets	Edison Medium Screw Sockets
130°	3″, 3½″ or 4″	Fig. A		Fig. C	
	4½″ or 5″	Fig. A-1		Fig. C-1	
30°	3″, 3½″ or 4″	Fig. A-2	Fig. A-4	Fig. C-2	Fig. C-4
	4½″ or 5″	Fig. A-3	Fig. A-5	Fig. C-3	Fig. C-5
160°	3″, 3½″ or 4″	Fig. A-6	Fig. A-8	Fig. C-6	Fig. C-8
	4½″ or 5″	Fig. A-7	Fig. A-9	Fig. C-7	Fig. C-9

TWO PAIRS OF MODEL D LAMPS for Back to Back Mounting.

HORIZONTAL BEAM SPREAD	FOR PIPE MAST	PEERLESS CROSS-ARM		A. A. R. 1656A JUNCTION BOX AND CROSS-ARM	
		Single Contact Bayonet Sockets	Edison Medium Screw Sockets	Single Contact Bayonet Sockets	Edison Medium Screw Sockets
130°	3″, 3½″ or 4″	Fig. B		Fig. D	
	4½″ or 5″	Fig. B-1		Fig. D-1	
30°	3″, 3½″ or 4″	Fig. B-2	Fig. B-4	Fig. D-2	Fig. D-4
	4½″ or 5″	Fig. B-3	Fig. B-5	Fig. D-3	Fig. D-5
160°	3″, 3½″ or 4″	Fig. B-6	Fig. B-8	Fig. D-6	Fig. D-8
	4½″ or 5″	Fig. B-7	Fig. B-9	Fig. D-7	Fig. D-9

SINGLE LAMPS

FIG.	NAME AND DESCRIPTION	DWG. No.
E	Model D Lamp with single contact bayonet socket and 130° spread.	41200-12
E-1	Model D Lamp with single contact bayonet socket and 30° spread.	41200-44
E-2	Model D Lamp with Edison medium screw socket and 30° spread.	41200-13
F	Model D Lamp with single contact bayonet socket and 160° spread.	41200-42
F-1	Model D Lamp with Edison medium screw socket and 160° spread.	41200-43
G	Model D Pilot Lamp with A. A. R. 15441 adapter (Specify color of cover glass).	41042X
H	Model E Pilot Lamp with A. A. R. 15441 adapter (Specify color of lens).	41265-4X
J	Mazda Globe, S-11 bulb and single contact bayonet base (Specify voltage and wattage).	40433
K	Mazda Globe, A-19 bulb and Edison medium screw base. 25W, 115 volt.	40433-1

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Plate D-21

Model D Bigby-Way Crossing Signal Lamps

Order by Plate, Figure and Name

Any order for 10 or more pairs of lamps with lenses ground, 130° spread, Bayonet sockets and Single Contact Resistor Sockets, for 8" pole mast, is wanted, simply order one pair of Model D lamps as the D-21, Fig. A-1.

For detailed description of lamps see Page 7

Candle Power	Type	ONE PAIR OF SINGLE D LAMPS			
		Single Contact Resistor Sockets	Screw Sockets	Single Contact Resistor Sockets	Screw Sockets
150	3 1/2" spread	Fig. A		Fig. C	
	4 1/2" spread	Fig. A-1		Fig. C-1	
75	3 1/2" spread	Fig. A-2	Fig. A-5	Fig. C-2	Fig. C-5
	4 1/2" spread	Fig. A-3	Fig. A-6	Fig. C-3	Fig. C-6
40	3 1/2" spread	Fig. A-4	Fig. A-7	Fig. C-4	Fig. C-7
	4 1/2" spread	Fig. A-5	Fig. A-8	Fig. C-5	Fig. C-8
		TWO PAIRS OF MODEL D LAMPS for Back to Back Mounting.			
150	3 1/2" spread	Fig. B		Fig. D	
	4 1/2" spread	Fig. B-1		Fig. D-1	
75	3 1/2" spread	Fig. B-2	Fig. B-5	Fig. D-2	Fig. D-5
	4 1/2" spread	Fig. B-3	Fig. B-6	Fig. D-3	Fig. D-6
40	3 1/2" spread	Fig. B-4	Fig. B-7	Fig. D-4	Fig. D-7
	4 1/2" spread	Fig. B-5	Fig. B-8	Fig. D-5	Fig. D-8

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Plate D-21

Model D Highway Crossing Signal Lamp Parts

Order by Plate, Figure, and Name

FIG.	NAME AND DESCRIPTION	DWG. No.
1	Lamp Housing complete, 1 Figure 1 and 2 Figures 2.	41201X
2	Side Light Glass.	40442
3	A. A. R. Terminal Block.	40446X
4	Round Head Brass Machine Screw for Figure 3.	004017
5	Lamp Cover.	41202
6	Round Head Brass Machine Screw for Figures 5, 13 and 21.	004057
7	Button Head Iron Rivet for Figures 1 and 5.	008003
8	Cover Gasket.	41205
9	Round Head Brass Machine Screw for Figures 10 and 20.	004024
10	Hood.	41204
11	Lock Screw.	41203
12	Lock Screw Washer.	41275
13	Roundel Clamp.	41207X
14	Red Roundel, 8⅜″ dia., 30° spread.	40405
15	Red Cover Glass, 8⅜″ dia., 160° spread, 12° down.	41407
16	100° Spreading Parabolic Glass Reflector only, for Figure 16a.	41210
16a	100° Spreading Reflector Assembly (with single contact bayonet socket). 3 Figures 9, 1 Figure 16, 1 Figure 17, 1 Figure 18, 1 Figure 19, 3 Figures 20, and 1 Figure 36.	41210X
16b	Parabolic Glass Reflector only, for Figure 16c.	41210-1
16c	Reflector Assembly (with Edison medium screw socket), 3 Figures 9, 1 Figure 16b, 1 Figure 17a, 1 Figure 18a, 1 Figure 19, 3 Figures 20a and 1 Figure 37.	41210-1X
16d	Parabolic Glass Reflector only, for Figure 16e.	41210-2
16e	Reflector Assembly (with single contact bayonet socket). 3 Figures 9, 1 Figure 16d, 1 Figure 17, 1 Figure 18, 1 Figure 19, 3 Figures 20 and 1 Figure 36.	41210-2X
17	Socket Sleeve and Figure 16a and 16e.	41211
17a	Socket Sleeve for Figure 16c.	41211-1
18	Single Contact Bayonet Socket Assembly for Figures 16a and 16e.	41209Y
18a	Edison Medium Screw Socket Assembly for Figure 16c.	41241X
19	Round Head Brass Machine Screw for Figure 16a, 16c and 16e.	004038
20	Reflector Clamp for Figures 16a and 16e.	41212X
20a	Reflector Clamp for Figure 16c.	41212-1X
21	Reflector Spring.	41208
22	Short Connector.	41214
22a	Long Connector.	41263
23	Connector Gasket.	41220
24	Cap Screw for Figures 22 and 22a.	009016
25	Lock Washer for Figure 24.	002002
26	Cap.	41215
27	Saddle.	41216
28	U Bolt (with nuts) for 3″, 3½″ and 4″ pipe mast.	41217X
28a	U Bolt (with nuts) or 4½″ and 5″ pipe mast.	41217-1X
29	Hexagon Nut for Figures 28, 28a, 30, 30a, 45 and 45a.	003022
30	Four Way Bolt (with nuts) for 3″, 3½″ and 4″ pipe mast.	41240X
30a	Four Way Bolt (with nuts) for 4½″ and 5″ pipe mast.	41240-1X
31	Cross Arm only.	41221
31a	Cross Arm complete, 1 Figure 31, 1 Figure 32, 1 Figure 33, 2 Figures 34 and 4 Figures 35.	41221X
32	Right Tee.	41222-1
33	Left Tee.	41222
34	Pipe Plug for Figures 32 and 33.	016009
35	Set Screw for Figures 32, 33 and 48.	010008
36	Socket Sleeve Gasket for Figures 16a and 16e.	40524
36a	Socket Sleeve Gasket for Figure 16c.	41242-1
37	20″ Background.	41218A
38	Brass Machine Screw and square nut.	004047X
39	Lock Washer for Figure 38.	002010
40	Junction Box and Cross Arm. A. A. R. 16571.	41277
41	Cover, A. A. R. 16572.	41278
42	Bracket, A. A. R. 16573.	41279
43	Blank, A. A. R. 16574.	41280
44	Saddle, A. A. R. 16575.	41281
45	Square Head Machine Bolt with hexagon nut for 3″, 3½″ and 4″ pipe mast.	006049X
45a	Square Head Machine Bolt with hexagon nut for 4½″ and 5″ pipe mast.	006050-1X
46	Hexagon Head Cap Screw for Figure 41.	009019
47	Hexagon Head Cap Screw for Figures 42 and 43.	009016
48	Elbow.	41264
49	Pipe Cap.	016007

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Plate D-21

Model D Highway Crossing Signal Lamp Parts

Order by Plate, Figure and Name

Fig.	Name of Part	Part No.
1	Lamp Housing complete; Figure 1 and 2 Figures 3.	412010X
1	Side Light Glass.	40012
3	A, A, R, Terminal Block	40448X
4	Round Head Brass Machine Screw for Figure 3.	30401Y
5	Lamp Cover.	41202
6	Round Head Brass Machine Screw for Figures 5, 15	00405Y
7	Button Head Iron Rivet for Figure 1 and 5.	00601Q
8	Cover Gasket.	A 208
9	Button Head Brass Machine Screw for Figures 10 and 20.	00402H
10	Hood	41204
11	Lock Screw.	41205
12	Lock Screw Washer	41278
13	Rear Bracket Clamp.	41207X
14	Red Rounded, 6¾" dia., 40° spread.	40406
15	Red Globe Glass, 8¾" dia., 180° spread, 12" focus	41406Y
16	100° Spreading Parabolic Glass Reflector only, for Figure 16.	41210
16a	100° Spreading Reflector Assembly, (with single contact bayonet socket). 3 Figures 9, 1 Figure 12, 1 Figure 16, 1 Figure 17, 1 Figure 18, 3 Figures 19, 3 Figures 20, and 1 Figure 30.	41210X
16b	Parabolic Glass Reflector only, for Figure 16a.	41210-Y
16c	Reflector Assembly (with Edison mogul screw socket). 3 Figures 5, 1 Figure 16b, 1 Figure 17a, 1 Figure 18a, 1 Figure 19a, 3 Figures 20 and 1 Figure 37.	41210-1X
17	Parabolic Glass Reflector only, for Figure 16c.	41210-2
17a	Reflector Assembly (with single contact bayonet socket). 3 Figures 5, 1 Figure 16b, 1 Figure 16c, 1 Figure 17, 1 Figure 18, 1 Figure 19, 3 Figures 20 and 1 Figure 38.	41210-2X
17	Socket Screw and Figure 18a and 18c	41211
17a	Socket Sleeve for Figure 18a	41211-1
17b	6 mpc Contact Bayonet Socket Assembly for Figures 16a and 16c.	41206Y
17c	Elbow Machine screw Socket Assembly for Figure 18a.	41241X
17d	Round Head Brass Machine Screw for Figure 18a, 18c and 18e.	00402B
18	Reflector Clamp for Figures 16a and 16c.	41212X
18a	Reflector Clamp for Figure 16b.	41212-1X
21	Retractor Spring.	41208
22	Stud Connector.	41210
22a	Long Connector.	41260
23	Connector Gasket.	41230
25	Clip Screw for Figures 22 and 22a.	00402
26	Lock Washer for Figure 22.	00500E
27	Cap.	41203
28	Saddle.	41218
29	U Bolt (with nuts) for 2½" pipe mast	41217A
29a	U Bolt (with nuts) for 3" pipe mast	41217-1X
30	Hexagon Nut for Figures 29, 29a, 30x, 30a and 46.	00402D
30	Four Way Bolt (with nuts) for 2½" and 3" pipe mast	41-30X
30a	Four Way Bolt (with nuts) for 4" and 5" pipe mast	41240-1X
31	Side Arm only.	41211
31a	Side Arm complete; Figure 31, 1 Figure 32, 1 Figure 33, 2 Figure 34 and 4 Fig. 35	41201X
32	Fig. Tee	41212-1
33	Right Tee	41212
34	Left Tee	41213
35	Pin, Ring for Figures 32 and 33	01600Q
35	Set Screw for 2 Figures 29, 34 and 35.	01002-1
36	Socket Sleeve Gasket for Figures 18a and 18c	00826
37	Socket Sleeve Gasket for Figure 18a.	41240-1
37	20° Backplate	41218A
38	Brass Machine Screw and square nut	00402-2X
39	Lock Washer for Figure 38	00501Q
40	Junction Box and 3 pcs Arm. A, A, R, 1 Set	41217
41	Cover, A, A, 1 set 72.	41278
42	Gasket, A, A, 1 set 8072	41279
43	Gland, A, A, 1 set 8074	41280
44	Saddle, A, A, 1 pc. 1a5/8	41282
45	Square Head Machine Bolt with hexagon nut for 2½" and 3" pipe mast	00402A
46	Square Head Machine Bolt with hexagon nut for 4" and 5" pipe mast	00402C-1X
47	Hexagon Head Cap Screw for Figure 31	00801Q
47	Hexagon Head Cap Screw for Figure 31a, 1	00801S
48	Elbow	41284
49	Pipe Cap.	01002Y

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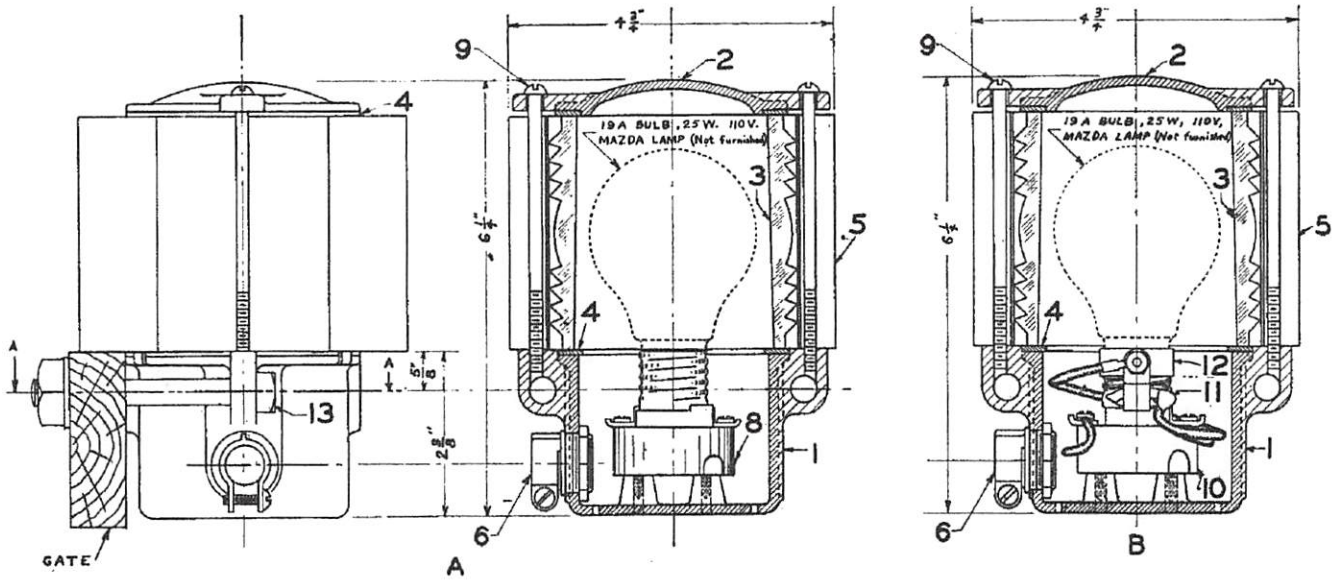
Plate D-29

Model E Lamps

All castings in this lamp are of aluminum, the shields are of galvanized iron and all screws are of brass. The metal parts are coated with a good dull black paint.

The lamp is regularly supplied with a red Fresnel type marine lens (can furnish amber or crystal) but unless otherwise specified a red lens will be furnished. It is equipped with an Edison medium screw socket, with two binding screws on each terminal.



Order by Plate, Figure and Name

FIG.	NAME AND DESCRIPTION	DWG. No.
A	Model E Crossing Gate Lamp with one BX cable adapter (as shown).	41265X
A-1	Model E Crossing Gate Lamp with two BX cable adapters, one on each side (not shown).	41265-1X
A-2	Model E Pilot Lamp; same as Figure A, except that a ¾" x 3½" pipe nipple is supplied instead of the BX cable adapter (Illustrated on Plate D-21).	41265-4X
B	Model E Crossing Gate Lamp with mercury circuit breaker in series with lamp, and with one BX cable adapter (as shown).7	41265-5X
B-1	Model E Crossing Gate Lamp with mercury circuit breaker in series with lamp, and with two BX cable adapters, one on each side (not shown).7	41265-7X

PARTS

1	Base.	41265A
2	Cover.	41266
3	Fresnel type Marine Lens (Specify color).	41267
4	Gasket (for top or bottom).	41268
5	Shield (for either side).	41269
6	BX Cable Adapter, with nut.	41270X
7	¾" x 3½" Pipe Nipple (not shown).	016016
8	Edison Screw Socket, with two mounting screws, for Figures A, A-1 and A-2.	41271X
9	Machine Screw.	004063
10	Edison Screw Socket, with two mounting screws for Figures B and B-1.	41271-1X
11	Mercury Contact with leads.	41273
12	Switch Mounting complete.	41277X
13	Square Head Machine Bolt with nut and washer.	006051-2X

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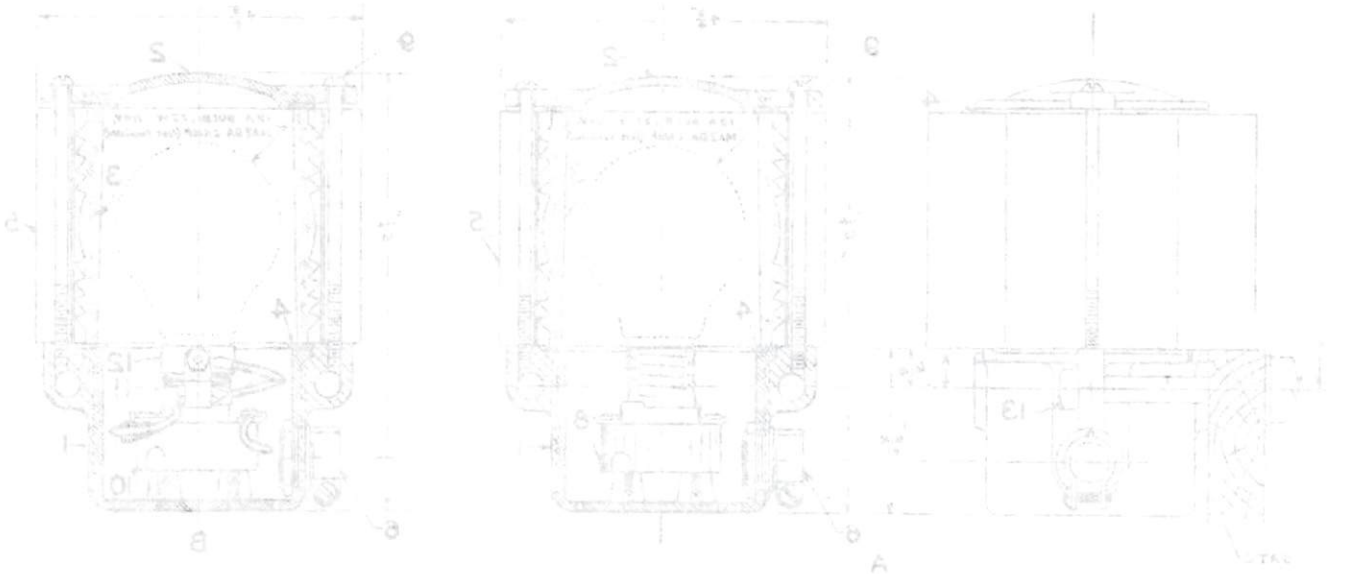
Plate D-29

Model E Lamps

All castings in this lamp are of aluminum, the shell is of galvanized iron and the screws are of brass. The metal parts are coated with a good coat black paint.

The lamp is regularly supplied with a red Fresnel type marine lens (can furnish amber or crystal) but unless otherwise specified a red lens will be furnished. It is equipped with an Edison medium screw socket, with two binding screws on each terminal.



Order by Plate, Figure and Name

FIG.	NAME AND DESCRIPTION	CAT. NO.
A	Model E Crossing Gate Lamp with one BX cable adapter (as shown).	41263X
A 1	Model E Crossing Gate Lamp with two BX cable adapters, one on each side (not shown).	41263-1X
A 2	Model E Pilot Lamp, same as Figure A, except that a ¾" x ½" pipe nipple is supplied instead of the BX cable adapter. (Illustrated on Plate D-27)	41268-4X
B	Model E Crossing Gate Lamp with mercury circuit breaker in series with lamp, and with one BX cable adapter (as shown).	41268-0X
B 1	Model E Crossing Gate Lamp with mercury circuit breaker in series with lamp, and with two BX cable adapters, one on each side (not shown).	41268-1X

PARTS

1	Base.	41268A
2	Cover.	41269
3	Fresnel type Marine Lens (specify color).	41427
4	Gasket (for top or bottom).	41268
5	Globe (for either end).	41269
6	BX Cable Adapter, with nut.	41270X
7	¾" x ½" Pipe Nipple (not shown).	016016
8	Edison Screw Socket, with two mounting screws, for Figures A, A-1 and A-2.	41271X
9	Machine Screw.	000083
10	Edison Screw Socket, with two mounting screws for Figures B and B-1.	41271-1X
11	Mercury Contact with leads.	41273
12	Switch Mounting Base plate.	41272X
13	Square Head Machine Bolt with nut and washer.	000021-2X

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Plate D-31

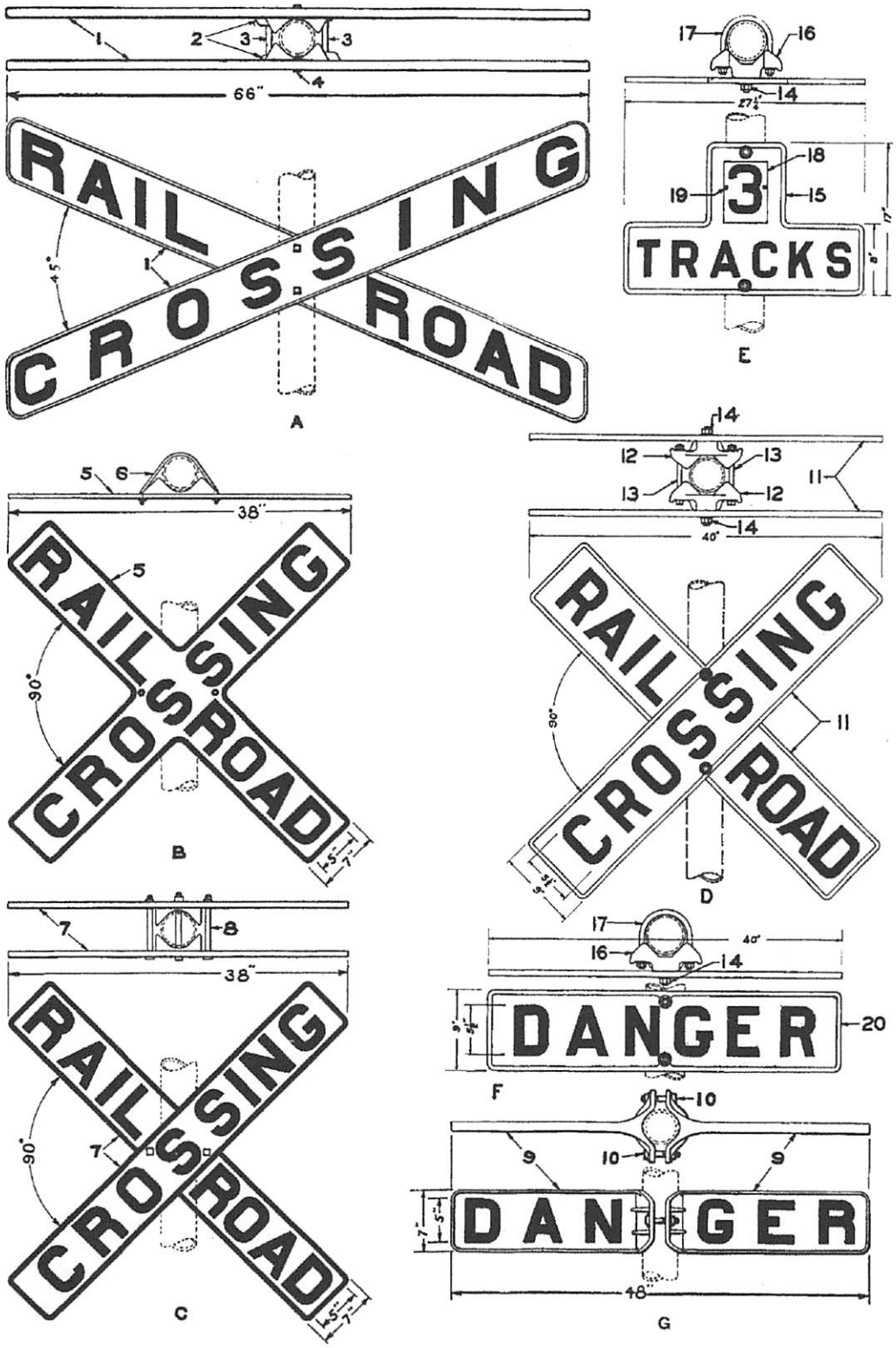

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Plate D-31

Cast Iron Crossing Signs

All signs listed below are made of cast iron with raised letters. The castings are smooth, clean, and free from all defects. Each sign is coated with high grade baked synthetic enamel, and carefully wrapped and packed so that the sign will reach its destination in good condition.

Signs are regularly furnished with black letters on a white background. If another color combination is wanted, it should be specified on the order.

We can also furnish special signs made to various railroad specifications.

FIG.	NAME AND DESCRIPTION	DWG. No.
A	Model A Crossing Sign complete with clamps and bolts. 45°, two piece, 5″ lettering on both sides of 7″ x 72″ panels. (Specify size of pipe mast).	40435-2X
B	Model B Crossing Sign complete with U bolt. 90°, one piece, 5″ lettering on one side of 7″ x 48″ panels. (Specify size of pipe mast).	40436-2X
C	Model C Crossing Sign complete with bolts. 90°, two piece, 5″ lettering on both sides of 7″ x 48″ panels. (Specify size of pipe mast).	41034-2X
C-1	Model C Crossing Sign complete with bolts, (not shown), 90°, two piece, 5″ lettering on both sides of 9″ x 48″ panels. (Specify size of pipe mast).	41044-2X
D	A. A. R. No. 16402 Cast Iron Crossing Sign complete with clamps and bolts, 90°, two piece, 5½″ lettering on both sides of 9″ x 48″ panels. (Specify size of pipe mast).	41046-2X
E	A. A. R. No. 16442 Cast Iron Tracks Sign complete with clamps and U bolts. (Specify number of tracks and size of pipe mast).	41049-2X
F	Danger Sign complete with clamps and U bolts. One piece, 5½″ lettering on one side of a 9″ x 40″ panel. (Specify size of pipe mast).	41048-2X
G	Danger Sign complete with bolts. Two piece, 5″ lettering on both sides of a 7″ x 48″ panel. (Specify size of pipe mast).	40440-2X

PARTS

1	Board only, for Model A Crossing Sign.	40435
2	Sign Clamp only, for Model A Crossing Sign.	40434A
3	Square Head Machine Bolt and nut for Figure 2. (Specify size of pipe mast).	006037X
4	Square Head Machine Bolt only for Figure 1.	006029
5	Board only, for Model B Crossing Sign.	40436
6	U Bolt with nuts and washers for Figure 5. (Specify size of pipe mast).	40437X
7	Board only, for 7″ x 48″ Model C Crossing Sign.	41034
7a	Board only, for 9″ x 48″ Model C Crossing Sign.	41044
8	Square Head Machine Bolt and nut for Figures 7 and 7a. (Specify size of pipe mast).	006039X
9	Board only, for two piece Danger Sign.	40440
10	Square Head Machine Bolt and nut for Figure 9. (Specify size of pipe mast).	006004X
11	Board only, A. A. R. No. 16401.	41046
12	Adapter Clamp only, A. A. R. No. 16411.	41047
13	Square Head Machine Bolt with hexagon nut and two washers, A. A. R. No. 16412.	006052-2X
14	Square Head Machine Bolt with hexagon nut and washer, cadmium plated, A. A. R. No. 16413.	006053-2X
15	Board only, for Tracks Sign, A. A. R. No. 16441.	41049
16	Adapter Clamp, A. A. R. No. 16471.	80456A
17	U Bolt with nuts and washers, A. A. R. No. 16472.	80457X
18	Number Sign, A. A. R. Nos. 16502 to 16509.	41050 to 59
19	Brass Theft resisting Screw and nut for Figure 18.	004064X
20	Board for one piece Danger Sign.	41048

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Plate D-51

Cast Iron Crossing Signs

All Crossing Signs are made of cast iron with raised lettering as shown. The castings are zinc plated and painted. All lettering on signs is painted with high gloss black synthetic enamel, and carefully cropped to the size shown. The signs will retain the installation in good condition.

Signs are regularly furnished with plain brackets as shown. If another type combination is wanted it should be specified on the order.

We can also furnish special sizes and style to conform to railroad specifications.

Part	Name	Catalog No.
A	Model A Crossing Sign complete with clamps and bolts. 48", two piece, 8" lettering on both sides of 27" x 42" panels. (Specify size of pipe mast.)	40438-CX
B	Model B Crossing Sign complete with U bolts. 60", two piece, 8" lettering on one side of 27" x 48" panels. (Specify size of pipe mast.)	40439-CX
C	Model C Crossing Sign complete with bolts. 60", two piece, 8" lettering on both sides of 27" x 48" panels. (Specify size of pipe mast.)	40440-CX
D	Model D Crossing Sign complete with bolts. (not shown) 60", two piece, 8" lettering on both sides 27" x 48" panels. (Specify size of pipe mast)	A 40440-CX
E	A. A. R. No. 1940 Cast Iron Crossing Sign complete with clamps and bolts, 60", two piece, 8" lettering on both sides of x 48" panels. (Specify size of pipe mast.)	41048-CX
F	A. A. R. No. 1942 Cast Iron Tracks Sign complete with clamps and U bolts. (Specify number of tracks and size of pipe mast.)	41040-CX
F	Danger Sign complete with clamps and U bolts. One piece, 8" lettering on one side of a 27" x 40" panel. (Specify size of pipe mast).	41048-CX
G	Danger Sign complete with bolts. Two piece, 8" lettering on both sides of a 27" x 48" panel. (Specify size of pipe mast)	41040-CX

PARTS

1	Board only, for Model A Crossing Sign.	40139
2	Sign Clamp only, for Model A Crossing Sign.	40-244
	Square Head Machine Bolt and nut for Figure 2. (Specify size of pipe mast)	000213X
4	Square Head Machine Bolt only for Figure 2.	000208
5	Board only, for Model B Crossing Sign.	40438
6	U Bolt with nuts and washers for Figure 2. (Specify size of pipe mast).	40427X
7	Board only, for 27" x 48" Model C Crossing Sign.	41004
7a	Board only, for 9" x 48" Model D Crossing Sign.	41044
9	Square Head Machine Bolt and nut for Figures 2 and 7a. (Specify size of pipe mast)	000202X
9	Board only, for two piece Danger Sign.	40440
10	Square Head Machine Bolt and nut for Figures 5. (Specify size of pipe mast)	000204X
11	Board only, A. A. R. No. 1940.	41048
12	Adapter Clamp only, A. A. R. No. 1940.	41047
13	Square Head Machine Bolt with hexagon nut and two washers, A. A. R. No. 1940.	000823CX
14	Square Head Machine Bolt with hexagon nut and washer, cadmium plated, A. A. R. No. 1942.	000832-CX
15	Board only, for Tracks Sign, A. A. R. No. 1942.	41042
16	Adapter Clamp, A. A. R. No. 1942.	82458A
17	U Bolt with nuts and washers, A. A. R. No. 1942.	000827X
18	Number Sign, A. A. R. Nos. 1930 to 1939.	41050 to 59
19	Brace Thrust resisting Screw and nut for Fig. 17.	41048 X
20	Board for one piece Danger Sign.	41048

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Plate D-41

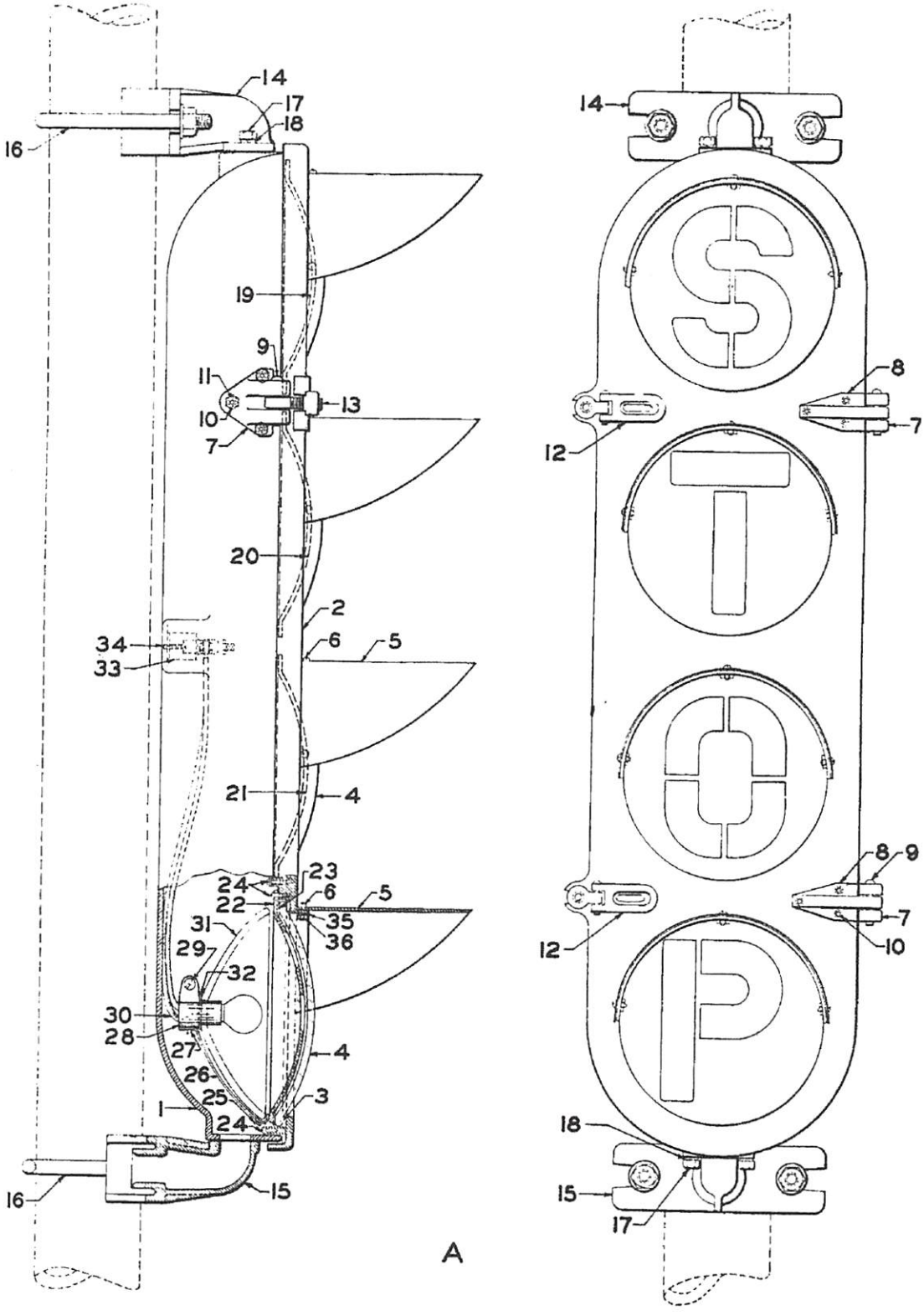

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Plate D-41

Luminous Stop Signs and Parts

Order by Plate, Figure and Name

FIG.	NAME AND DESCRIPTION	DWG. No.
A	Model D Luminous Stop Sign complete with single contact bayonet sockets. (Specify size of pipe mast).	70300
A-1	Model D Luminous Stop Sign complete with Edison medium screw sockets. (Specify size of pipe mast).	70300-2

PARTS

1	Case.	70301
2	Front.	70302
3	Packing.	70303
4	8⅜" Red Diffusing Roundel.	70304
5	Hood.	40204
6	Round Head Brass Machine Screw for Figure 5.	004009
7	Hinge Ear.	10205
8	Hinge.	70305
9	Button Read Rivet for Figure 7.	008002
10	Hexagon Head Cap Screw for Figures 7 and 8.	009001
11	Lock Washer for Figure 10.	002001
12	Hasp complete.	41008X
13	Eye Bolt.	70306
14	Top Bracket.	70311-1
15	Bottom Bracket.	70311
16	U Bolt complete with nuts and washers for 3", 3½" and 4" pipe mast.	70313X
16a	U Bolt complete with nuts and washers for 4½" and 5" pipe mast.	70313-1X
17	Hexagon Head Cap Screw for Figures 14 and 15.	009016
18	Lock Washer for Figure 17.	002002
19	"S" Letter Plate.	70307A
20	"T" Letter Plate.	70308A
21	"O" Letter Plate.	70309A
22	"P" Letter Plate.	70310A
23	Gasket for Figures 19, 20, 21 and 22.	40406
24	Round Head Brass Machine Screw for Figures 19, 20, 21, 22 and 25.	004057
25	Reflector Spring.	41208
26	Reflector Clamp complete for Figure 28.	41212X
26a	Reflector Clamp complete for Figure 28a.	41212-1X
27	Round Head Brass Machine Screw for Figures 26 and 26a.	004024
28	Socket Sleeve for bayonet socket.	41211
28a	Socket Sleeve for Edison medium screw socket.	41211-1
29	Round Head Brass Machine Screw for Figures 28 and 28a.	004038
30	Single Contact Bayonet Socket with leads.	41209-1Y
30a	Edison Medium Screw Socket with leads.	41241-1X
31	Parabolic Glass Reflector for bayonet socket.	70312
31a	Parabolic Glass Reflector for Edison medium screw socket.	41011
32	Socket Sleeve Gasket for Figure 28.	40524
32a	Socket Sleeve Gasket for Figure 28a.	41242-1
33	A. A. R. Terminal Block.	40446X
34	Round Head Brass Machine Screw for Figure 33.	004017
35	Lock Washer for Figure 6.	002007
36	Hexagon Brass Machine Screw Nut for Figure 6.	003010

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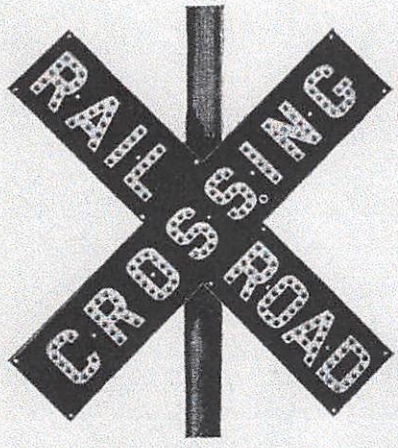
Plate D-11

Luminous Stop Sign and Parts

Order by Plate, Figure and Name

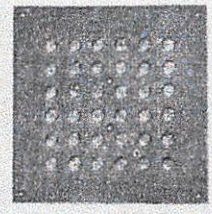
Plate D-50



W-149

W-17A

W-19A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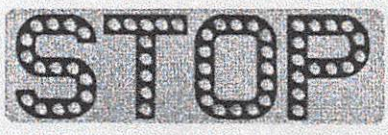
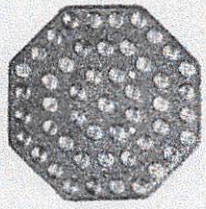
W-134B



W-103A

W-136-2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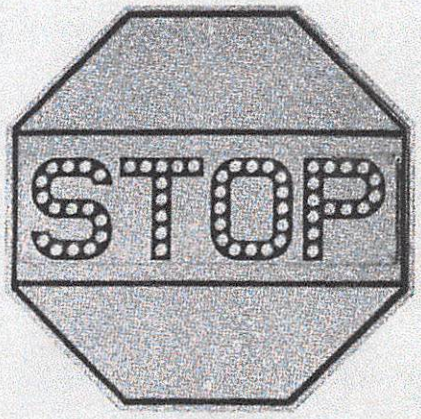
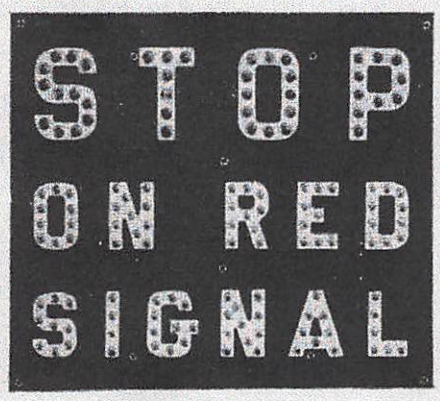


W-103

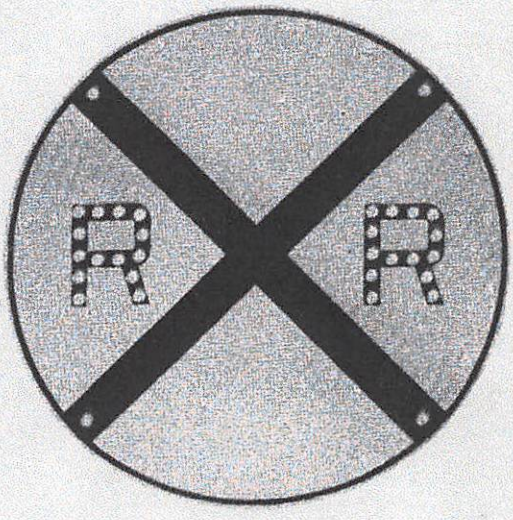
W-153-2

W-35



W-140-2

1



CW-101

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Plate D-50

Reflex Signs and Units

Unless otherwise specified signs and units will be furnished in colors as listed below. Other colors will be furnished if specified.

Number 1A button is 7/8" in diameter.
Number 2A button is 11/16" in diameter.
Number 3A button is 1/2" in diameter.

Buttons are made in clear or crystal, amber, green or red. The clear reflect the greatest amount of light and for this reason we recommend their use wherever possible to do so. The amber buttons are next in efficiency.

On this page we list only a few of our Reflex Signs and Units. For our complete line see Bulletin No. 23C.

Order by Plate, Figure and Name

FIG.	NAME AND DESCRIPTION	DWG. No.
	SIGN	
CW-101	Railroad Crossing Sign, 16 gauge sheet iron painted yellow with letters, border, and X embossed and painted black. 6" letters, 30" diameter of sign, 48 No. 2A Crystal Buttons.	80562X
W-35	Railroad Crossing Sign. Letters (6 3/16" high) and X of cast aluminum painted white, mounted on a steel plate (10" x 23") painted black. 28 No. 1A Amber Buttons in letters and 21 No. 1A Crystal Buttons in X.	80272X
W-103	Octagon Stop Sign. Stop unit of cast aluminum painted yellow with 6" black letters raised 1/16", mounted on 24" diameter 16 gauge sheet iron plate painted yellow with border embossed and painted black. 55 No. 2A Crystal Buttons.	80132X
W-136-2	A. A. R. No. 16455 Tracks Sign complete with clamps and U bolts. 16 gauge sheet iron painted black with letters and number painted white. 11 to 13 No. 2A Crystal Buttons in number and 50 No. 3A Crystal Buttons in letters. (Specify number of tracks and size of pipe mast).	80490-2X
W-140-2	A. A. R. No. 16462 STOP ON RED SIGNAL Sign complete with clamps and U bolts. 16 gauge sheet iron painted black with letters white. 41 No. 2A crystal buttons in "STOP" and 98 No. 3A crystal buttons in "ON RED SIGNAL". (Specify size of pipe mast).	80474X
W-149	A. A. R. No. 16422, 90° Reflector Crossing Sign complete with clamp and U bolts. 16 gauge sheet iron painted black with letters white. 167 No. 2A Crystal Buttons. (Specify size of pipe mast).	80510X
W-153-2	STOP ON RED Sign complete with clamps and U bolts. 16 gauge sheet iron painted black with letters white. 41 No. 2A crystal buttons in "STOP" and 50 No. 3A in "ON RED". (Specify size of pipe mast).	80474-1X
	UNITS	
W-12A	Octagon Unit, 10 5/8" diameter. Cast aluminum painted same color as buttons. 49 No. 1A buttons. (Specify color and if wanted for mountaing on wood or metal).	80117X
W-17A	Square Marker, 5 1/4" diameter. Cast aluminum painted same color as buttons. 16 No. 1A buttons. (Specify color and if wanted for mounting on wood or metal).	80101X
W-19A	Square Marker, 6 11/16" diameter. Cast aluminum painted same color as buttons. 25 No. 1A buttons. (Specify color and if wanted for mounting on wood or metal).	80175X
W-103A	Stop Unit, 6 13/16" x 22 1/8". Cast aluminum painted yellow with 6" black letters raised 1/16". 55 No. 2A crystal buttons. (Specify if wanted for mounting on wood or metal).	80184X
W-134B	Octagon Unit, 7 3/4" diameter. Cast aluminum painted same color as buttons. 25 No. 1A buttons. (Specify color and if wanted for mounting on wood or metal).	80264X
W-139B	A. A. R. No. 16493 Reflector Crossing Signal Marker complete with clamp and U bolt. 16 gauge sheet iron painted yellow. 25 No. 2A amber buttons. (Specify size of pipe mast).	80548X
1	Special Reflex Screw Driver.	80274A

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Plate D-50

Reflex Signs and Units

Unless otherwise specified signs and units will be furnished in lettering as listed below. Other colors will be furnished to specification.

Number 1A Button is 3/4" in diameter.
Number 2A Button is 1" in diameter.
Number 3A Button is 1 1/2" in diameter.
Prisms are made in clear or crystal color effect (no "Color" effect). The greater amount of light and for this reason we recommend their use wherever practicable. The Number 1A amber buttons are next in efficiency.

On this page we list only a few of our Reflex Signs and Units. For a complete line see Catalog No. 650.

Order by Plate Figure and Name

Plate	Name	Description	Catalog No.
CW-101	Railroad Crossing Sign	18 gauge sheet iron painted yellow with letters, border, and X embossed and painted black. 30" altitude, 30" diameter of sign, 18 No. 2A Crystal Buttons	80802X
W-35	Railroad Crossing Sign	Letters are 6" high and X is cast aluminum painted white, mounted on a steel plate (10" x 28") painted black. 3A No. 1A Amber Buttons in letters and 21 No. 1A Crystal Buttons in X.	80621X
W-102	Octagon Stop Sign	Stop unit cast aluminum painted yellow with black letters raised 3/4", mounted on 24" diameter 18 gauge sheet iron plate painted yellow with border embossed and 12 mild black. 36 No. 2A Crystal Buttons.	80132X
W-1402	A. A. R. No. 1965 Trucks Sign	complete with clamps and U bolts. 18 gauge sheet iron painted black with letters and number painted white. 11 to 13 No. 2A Crystal Buttons in number and 31 to 37 Crystal Buttons in letters. Specify number of trucks and size of pipe mast.	80429X
W-1403	A. A. R. No. 1965 STOP ON RED SIGNAL Sign	complete with clamps and U bolts. 18 gauge sheet iron painted black with letters white. 41 No. 2A Crystal Buttons in "STOP" and 36 No. 2A crystal buttons in "ON RED SIGNAL". Specify size of pipe mast.	80471X
W-103	A. A. R. No. 1965D, 90° Reflector	Clearing Sign complete with clamps and U bolts. 18 gauge sheet iron painted black with letters white. 127 No. 2A Crystal Buttons. Specify size of pipe mast.	80610X
W-103	STOP ON RED Sign	complete with clamps and U bolts. 18 gauge sheet iron painted black with letters white. 49 No. 2A crystal buttons in "STOP" and 20 No. 2A in "ON RED". Specify size of pipe mast.	80479-1X

Plate D-61

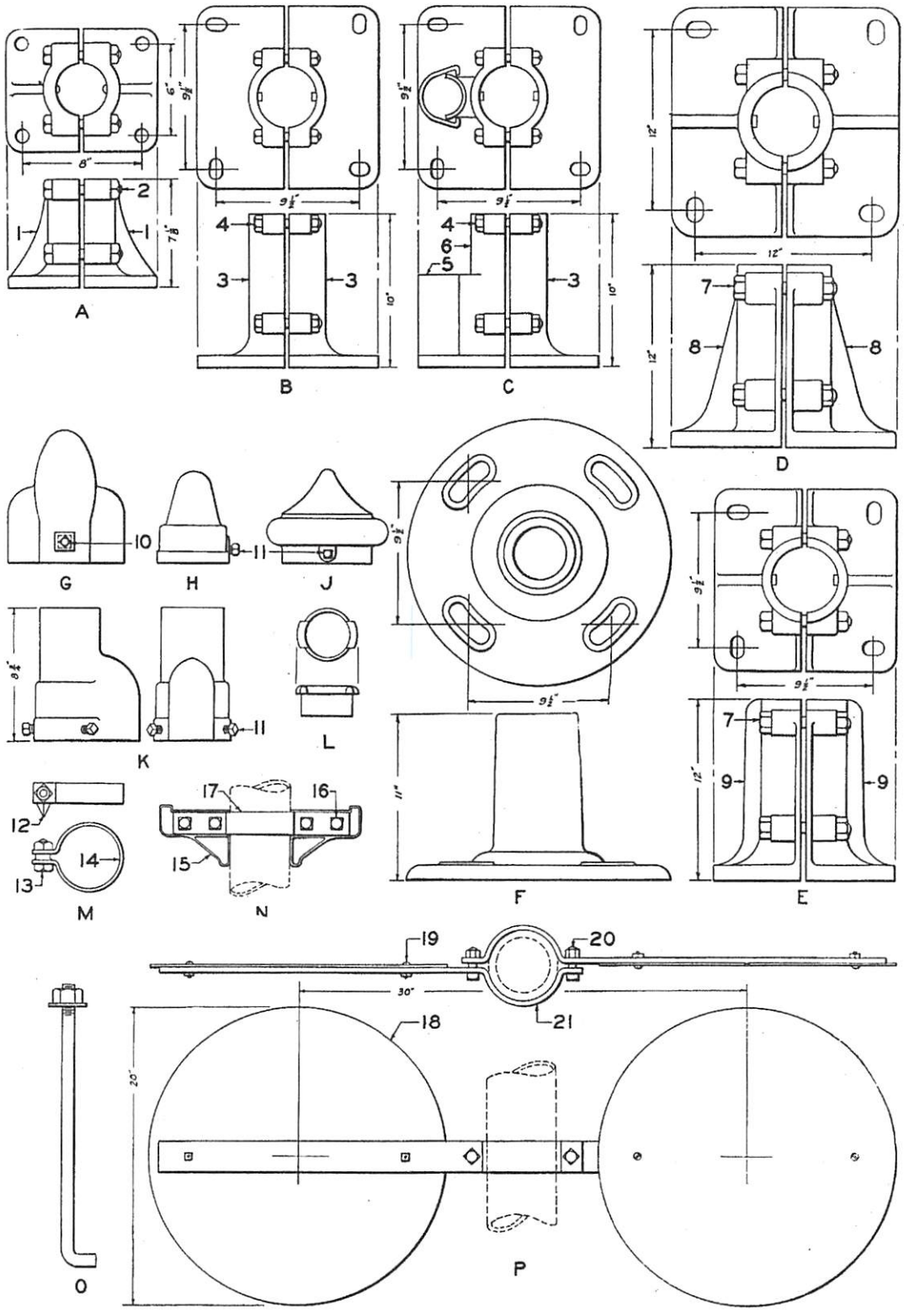

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Plate D-61
Parts for Signals
Order by Plate, Figure and Name

FIG.	NAME AND DESCRIPTION	DWG. No.
A	Clamp Base complete (6″ x 8″ bolt centers) for 3″ i. d. pipe.	50302AX
A-1	Clamp Base complete (6″ x 8″ bolt centers) for 4″ i. d. pipe.	50302-1AX
B	A. R. A. No. 11806 Clamp Base complete (9½″ x 9½″ bolt centers) for 3½″ i. d. pipe.	50102AX
C	A. R. A. No. 11805 Clamp Base complete (9½″ x 9½″ bolt centers) for 3½″ i. d. pipe mast and outlet for 2½″ pipe.	50101AX
D	Clamp Base complete (12″ x 12″ bolt centers) for 4″ i. d. pipe.	41033X
D-1	Clamp Base complete (12″ x 12″ bolt centers) for 3½″ i. d. pipe.	40133-1X
E	A. A. R. No. 14492 Clamp Base complete (9½″ x 9½″ bolt centers) for 4″ i. d. pipe.	41018X
E-1	Clamp Base complete (9½″ x 9½″ and 6″ x 8″ bolt centers—base has eight holes) for 4″ i. d. pipe.	41043X
F	Solid Base, 11″ high (9½″ x 9½″ bolt centers) for 3½″ i. d. pipe.	50508
F-1	Solid Base, 11″ high (9½″ x 9½″ bolt centers) for 4″ i. d. pipe.	50508-1
F-2	Solid Base, 11″ high (9½″ x 9½″ bolt centers) for 5″ i. d. pipe.	50508-2
F-3	Solid Base, 9½″ high (8½″ x 8½″ bolt centers) for 4″ i. d. pipe.	41272
F-4	A. A. R. No. 16142 Solid Base, 22″ high (11 1/16″ x 11 1/16″ bolt centers) for 5″ i. d. pipe.	41258
F-5	A. A. R. No. 16143 Solid Base, 22″ high (11 1/16″ x 11 1/16″ bolt centers) for 6″ i. d. pipe.	41258-1
G	A. R. A. No. 11814 Pinnacle complete with set screw and nut, for 3½″ i. d. pipe.	50105X
G-1	Pinnacle complete with set screw and nut, for 3″ i. d. pipe.	50303X
G-2	Pinnacle complete with set screw and nut, for 4″ i. d. pipe.	50310X
H	Cone Pinnacle complete with set screw, for 3½″ i. d. pipe.	40447X
H-1	Cone Pinnacle complete with set screw, for 4″ i. d. pipe.	40447-1X
J	Pinnacle complete with set screw, for 5″ pipe.	41256X
K	Bell Cable Outlet complete for 3½″ i. d. pipe.	40443X
K-1	Bell Cable Outlet complete for 4″ i. d. pipe.	40443-1X
K-2	Bell Cable Outlet complete for 5″ i. d. pipe.	40443-3X
L	3″ Bushing for use with Figure G-1.	50306
L-1	A. R. A. No. 11812 Bushing for use with Figures G and K. (For 3½″ i. d. pipe).	50106
L-2	4″ Bushing, for use with Figures G-2 and K-1.	40451
L-3	5″ Bushing, for use with Figure K-2.	40451-2
M	A. R. A. No. 13746 Cable Support Clamp complete, for 3½″ i. d. pipe.	50110X
M-1	3″ Cable Support Clamp complete.	50307X
M-2	A. A. R. No. 11922 Cable Support Clamp complete, for 4″ i. d. pipe.	50110-1X
M-3	5″ Cable Support Clamp complete.	50110-3X
N	Pole Step complete (Specify size of pipe mast).	41025-2X
O	Anchor Bolt with hexagon nut and washer, ¾″ x 18″.	50104-1X
P	Universal Background for flashing light signals, 20″ dia. x 18 gauge sheet iron painted black. (Specify size of pipe mast).	41218-2X
1	Half Base for Figure A (for 3″ pipe).	50302A
1a	Half Base for Figure A-1 (for 4″ pipe).	50302-1A
2	Square Head Machine Bolt with square nut for Figures A and A-1.	006022X
3	A. R. A. No. 11801 Right Half Base, for Figures B and C.	50102A
4	A. R. A. No. 11804 Hexagon Head Machine Bolt with hexagon nut, for Figures B and C.	006017X
5	A. R. A. No. 11803 Cap for Figure C.	50103
6	A. R. A. No. 11801 Left Half Base for Figure C.	50101A
7	Hexagon Head Machine Bolt with hexagon nut for Figures D, D-1, E and E-1.	006043X
8	Half Base for Figure D (for 4″ pipe).	41033
8a	Half Base for Figure D-1 (for 3½″ pipe).	41033-1
9	Half Base for Figure E.	41018
9a	Half Base for Figure E-1.	41043
10	Set Screw and Square Nut for Figures G and G-2.	010003X
10a	Set Screw and Square Nut for Figure G-1.	010004X
11	Set Screw for Figures H, H-1, J, K, K-1 and K-2.	010005
12	⅜″ Guy Thimble for Figures M, M-1, M-2 and M-3.	50111
13	Square Head Machine Bolt with square nut for Figures M, M-1, M-2 and M-3.	006001X
14	Cable Support Clamp for Figure M.	50110
14a	Cable Support Clamp for Figure M-1.	50307
14b	Cable Support Clamp for Figure M-2.	50110-1
14c	Cable Support Clamp for Figure M-3.	50110-3
15	Pole Step only.	41025
16	Square Head Machine Bolt and Nut for Figure N.	006029X
17	Pole Step Band for Figure N (Speficy size of pipe mast).	41026-2
18	Disc only for Figure P.	41218
19	Round Head Stove Bolt and Square Nut, for Figure P.	014002X
20	Square Head Machine Bolt with Square Nut, for Figure P.	006001X
21	Arm for Figure P.	41219

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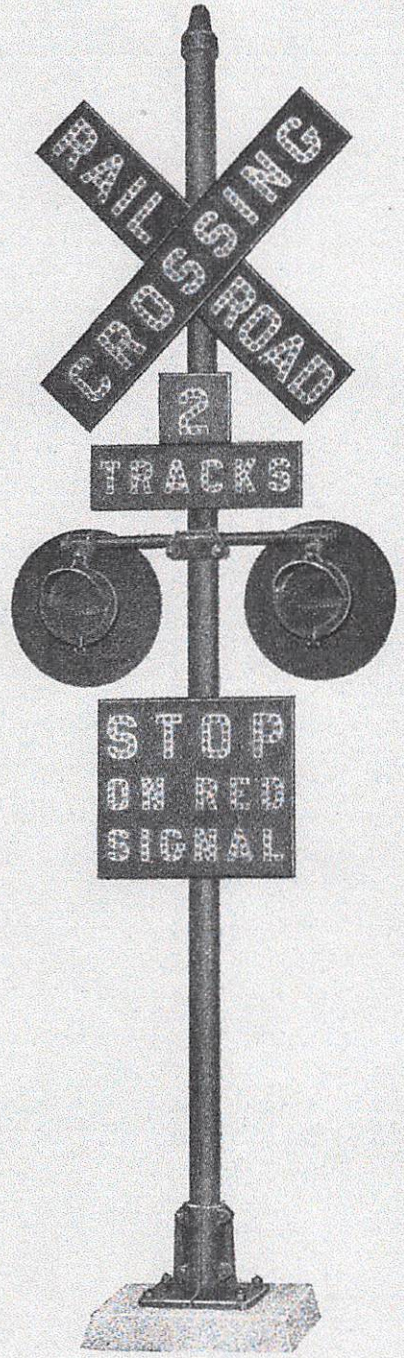

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